



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
07.01.2004 Bulletin 2004/02

(51) Int Cl.7: **G01S 13/58**

(43) Date of publication A2:
04.06.2003 Bulletin 2003/23

(21) Application number: **02258185.4**

(22) Date of filing: **27.11.2002**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
IE IT LI LU MC NL PT SE SK TR
 Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:
 • **Matsui, Sadanori**
Hyogo-ku, Kobe-shi, Hyogo (JP)
 • **Asanuma, Hisateru**
Hyogo-ku, Kobe-shi, Hyogo (JP)

(30) Priority: **30.11.2001 JP 2001367028**

(74) Representative: **Skone James, Robert Edmund**
GILL JENNINGS & EVERY
Broadgate House
7 Eldon Street
London EC2M 7LH (GB)

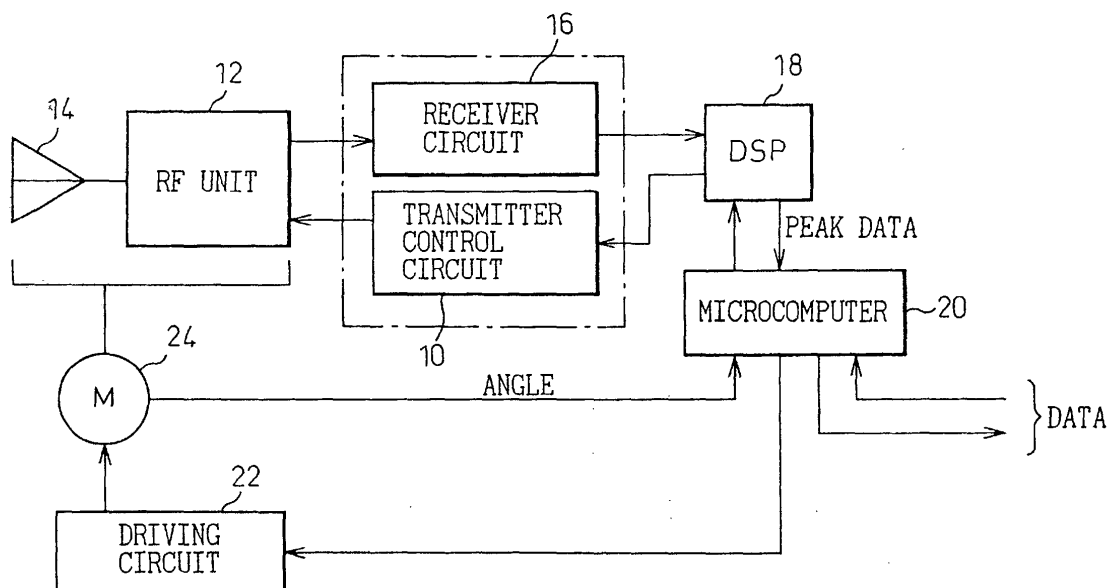
(71) Applicant: **FUJITSU TEN LIMITED**
Kobe-shi, Hyogo (JP)

(54) **Device and method for unwanted peak detection for radar**

(57) An unwanted peak occurring due to an antenna sidelobe and an unwanted peak occurring due to a harmonic are eliminated in a radar apparatus. A peak from a target that can cause an unwanted peak is found based on the intensity of the peak, and a search is made for a peak having a predetermined positional relation-

ship with the thus found peak. If such a peak is located, then it is determined whether the peak is a candidate for an unwanted peak, based on the difference between the intensity of the peak and the intensity of the main peak. If both of the paired peaks are determined as being candidates for unwanted peaks, it is determined that the peaks are unwanted peaks.

Fig.1





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 02 25 8185

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 6 323 802 B1 (TOKORO SETSUO) 27 November 2001 (2001-11-27) * abstract *	1-3,9-11	G01S13/58
Y	* column 1, line 29 - column 2, line 41 * * column 5, line 66 - column 6, line 53 *	4,5,12,13	
Y	--- EP 0 773 452 A (TOYOTA MOTOR CO LTD) 14 May 1997 (1997-05-14) * column 23, line 36 - line 47 *	4,12	
Y	--- US 4 214 243 A (PATTERSON ROBERT E) 22 July 1980 (1980-07-22) * abstract *	5,13	

			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			G01S
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		28 October 2003	Zaccà, F
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03/02 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 02 25 8185

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

28-10-2003

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6323802	B1	27-11-2001	JP	2000147115 A	26-05-2000
			DE	19947593 A1	18-05-2000

EP 0773452	A	14-05-1997	JP	3237488 B2	10-12-2001
			JP	9132095 A	20-05-1997
			JP	3252680 B2	04-02-2002
			JP	9145833 A	06-06-1997
			JP	3104599 B2	30-10-2000
			JP	9145827 A	06-06-1997
			DE	69611278 D1	25-01-2001
			DE	69611278 T2	23-05-2001
			EP	0773452 A1	14-05-1997
			KR	204620 B1	15-06-1999
			US	RE37725 E1	04-06-2002
			US	5734344 A	31-03-1998

US 4214243	A	22-07-1980	CA	1124368 A1	25-05-1982
			GB	2030813 A	10-04-1980
